

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 09/289,600

D 1
and
all the cells within each respective picture element correspond to an output luminance of the respective picture élément,

wheréin each respective picture element of said display device corresponds to a picture element of said monochromatic image, and

wherein the output luminances of the plurality of picture elements of said display device express said monochromatic image.

D 2
2. (Currently Amended) A monochromatic image display system as defined in Claim 1 in which the cell signal generating means generates cell signals so that the output luminances of the cells of the respective picture element of said display device are substantially uniform.

3. (Currently Amended) A monochromatic image display system as defined in Claim 1 in which the cell signal generating means generates cell signals so that the output luminances of the cells of the respective picture element of the display device change at an inclination according to a tone gradient vector of picture elements around the respective picture element corresponding to the cells.

4. (Currently Amended) A monochromatic image display system as defined in Claim 1 in which the cell signal generating means intensity-modulates input signal levels to the respective cells independently of each other.

5. (Currently Amended) A monochromatic image display system as defined in Claim 1 in which the cell signal generating means time-modulates input signal levels to the respective cells independently of each other.

6. (Currently Amended) A monochromatic image display system as defined in Claim 5 in which the cell signal generating means time-modulates input signal levels to the respective cells by frame.

D3
9. (Currently Amended) A monochromatic image display system as defined in Claim 1 further comprising a tone number conversion means which carries out a tone number conversion processing on an input original monochromatic image signal, thereby generating said monochromatic image signal, wherein a number of tones represented by said monochromatic image signal is no greater than a number of tones which can be expressed by each respective picture element of said display device.

D4
13. (Currently Amended) A monochromatic image display system comprising:
a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, each cell emitting light in a same color and expressing tones in three or more levels, and at least two of said series of cells having maximum output levels different from each other; and
a drive means which drives the cells of a respective picture element so that the output level difference per one level of said three or more levels differs from each other between said at least two of said series of cells,
wherein the plurality of picture elements express a monochromatic image.

D5
17. (Currently Amended) A monochromatic image display system as defined in Claim 13 in which the display device is an organic EL panel in which said at least two cells for each picture element emit light in the same color at different luminances for a given signal level, wherein said given signal level indicates an output luminance of the respective picture element having said at least two cells.

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D6
18. (Currently Amended) A monochromatic image display system as defined in claim 1, wherein said display device is further characterized as being a flat panel-like display device, and is further characterized in that the display device is a monochromatic display device which makes a display in said same color which falls within the region surrounded by points (0.174, 0), (0.4, 0.4) and (α , 0.4) as represented by co-ordinates (x, y) on a CIE chromaticity diagram, wherein α represents the x-coordinate of the intersection of a spectrum locus and a straight line y=0.4.

D7
19. (Currently Amended) A monochromatic image display system as defined in Claim 18 in which the display device further comprises at least one of elements including a substrate, a face plate, a diffuser panel, a color filter, a diffuser film, a collimator film, a prism film and a polarizing film which are colored to a predetermined color.

D8
20. (Currently Amended) A monochromatic image display system as defined in Claim 18, further comprising at least one of:

an area modulation means which controls the output luminance of each picture element by selectively turning on and off input signals to respective cells, for each picture element, independently of each other,

a time modulation means which drives the respective cells for each picture element in a time division system, and

an intensity modulation means which controls input signal levels to the respective cells for each picture element independently of each other,

wherein the cells are driven so that the maximum luminance of each picture element is in the range of $100\text{cd}/\text{m}^2$ to $10000\text{cd}/\text{m}^2$.

D9
21. (Currently Amended) A monochromatic image display system as defined in Claim 20 in which the maximum luminance of each picture element is in the range of $500\text{cd}/\text{m}^2$ to $5000\text{cd}/\text{m}^2$.

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22. (Currently Amended) A monochromatic image display system as defined in Claim

D9
Cond'd 18 in which the display device is a liquid crystal panel.

23. (Currently Amended) A monochromatic image display system as defined in Claim

18 in which the display device is an organic EL panel.

29. (Currently Amended) A monochromatic image display system as defined in Claim

D-10 1, wherein said display device is a monochromatic display device which makes a display in [a] said same color which falls within a region surrounded by points (0.174, 0), (0.4, 0.4) and (α , 0.4) as represented by co-ordinates (x, y) on a CIE chromaticity diagram, wherein α represents an x-coordinate of an intersection of a spectrum locus with a straight line $y=0.4$.

D-11 0 31. (Currently Amended) A monochromatic image display system as defined in Claim 19, wherein said at least one of elements is formed of polyethylene terephthalate colored with an anthraquinone dye to a color of said predetermined color.

Please add the following new claims:

D-12 35. (New) A monochromatic image display system as defined in Claim 18, wherein said same color is blue.

36. (New) A monochromatic image display system as defined in Claim 29, wherein said same color is blue.

37. (New) A monochromatic image display system as defined in Claim 9, wherein a number of tones represented by said input original monochromatic image signal is greater than said number of tones represented by said monochromatic image signal.